

**RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITÄT BONN**  
**Fachgruppe Biologie**

**Zoologisches Forschungsmuseum Alexander Koenig**

## **Biologisches Kolloquium**

**Wintersemester 2019/2020**

**Montag, den 25. 11. 2019, 17 Uhr c.t.**

im Hörsaal Zoologie, Poppelsdorfer Schloss

### **Jun.-Prof. Dr. Lisa M. Schulte**

Department of Wildlife-/Zoo-Animal-Biology and Systematics,  
Goethe Universität Frankfurt

## **“Chemical Communication in Anurans – from Behaviour to Pheromone Decoding and Evolution“**

Einladung: Prof. Dr. G. von der Emde (Institut für Zoologie)

#### *Abstract:*

Chemical communication is the evolutionary oldest communication system in the animal kingdom. In amphibians, chemical signaling is well documented in caudates, but because anurans spend a lot of energy in acoustic signaling, chemical communication has received much less attention in this order. However, poison frogs for example use chemical communication during parental care behaviours: They transport their tadpoles to very small water bodies and chemically recognize and avoid cannibalistic tadpoles. In other frog families we investigate proteinaceous courtship-pheromones, which have a common evolutionary origin with salamander pheromones - being the oldest known pheromone system in terrestrial vertebrates.